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What Is Claimed Is:

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forming a first tube by extruding firstly, the tube having its outer diameter slightly smaller than that of a desired catheter, then vulcanizing and cutting the first tube;

punching two balloon injection openings having small diameter at a portion for expanding into balloon in the first tube after inserting a support rod into a discharge tube path;

coating mold lubricant at a portion of the balloon/injection opening;

connecting the first tubes coated the mold lubricant by using a connection unit after removing the support rod, and thereafter forming a second tube at the coated outside surface of the first tube by extruding secondly, performing a vulcanizing process and cutting again;

forming a tip at the tip portion of the first and second tubes; and punching a urine discharge opening at the first tube.